The BOSS -

Business Operating Success Strategies

(LSP-UG-330.01 rev. Basic)

Project Management Challenge

February 26, 2007

Recent Events

- Baseline and Release LSP-UG-330.01 Basic of the Business Operating Success Strategies (BOSS) User's Guide
  - Plus: LSP-F-330.01 Basic BOSS Checklist & LSP-F-330.02 Basic BOSS Mission Management Schedule

Outline of BOSS Discussion

- What is BOSS?
- Why is BOSS required?
- Who SHALL comply?
- When is Compliance Required?
- How are Assessments Completed?
- Where is the BOSS Document located?
- Who is the Governing Authority?
- Who will update and maintain and How?

Guidance generated by…

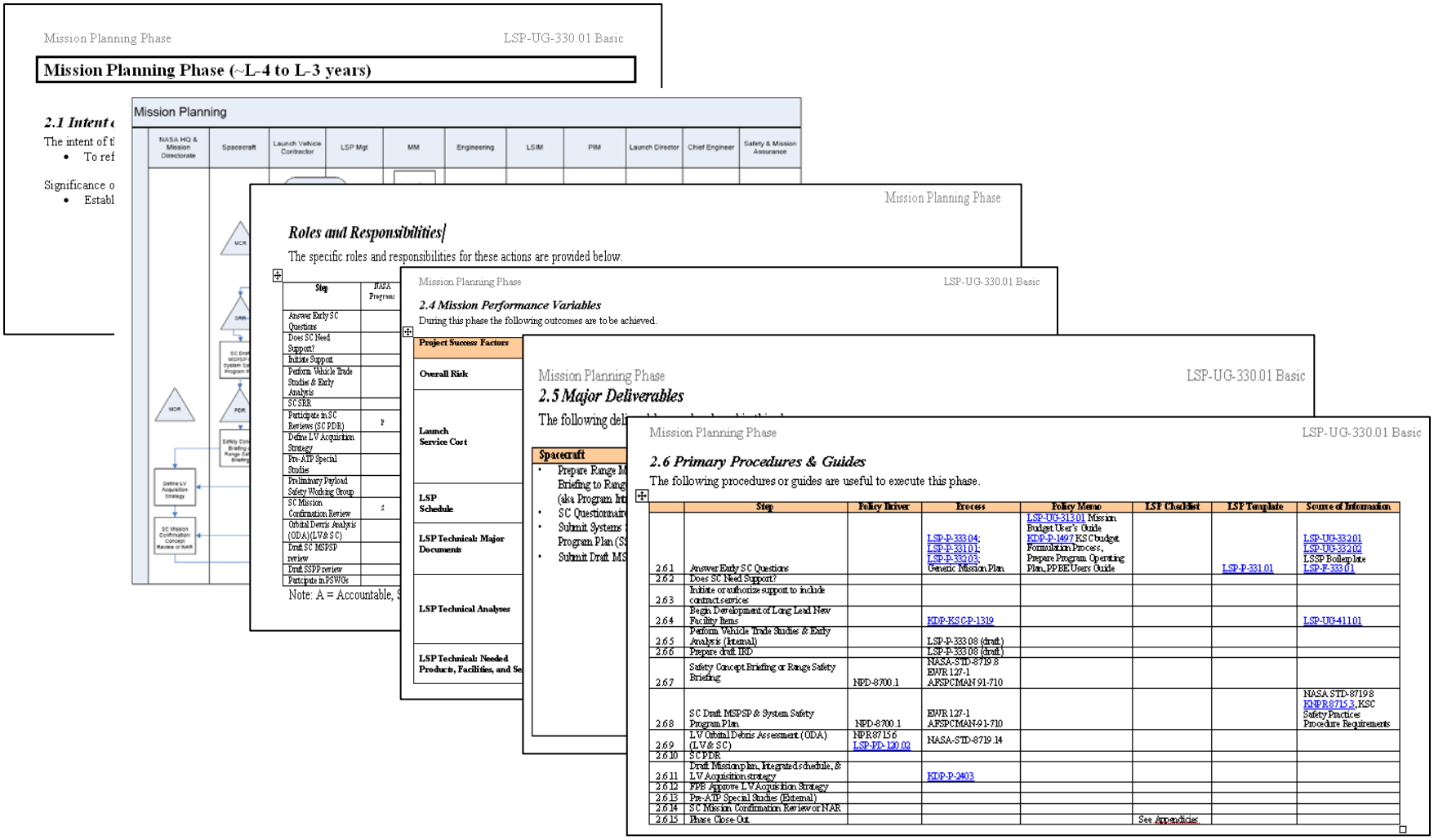
- Wanda Harding (FPO)
- Randy Mizelle (PBO)
- Diana Calero (Fleet & Systems)
- Eric Haddox (Flight Analysis)
- Julie Schneringer (Infrastructure Mang't)
- Greg Peralta (Engineering-NE)

Team Members reviewed document with supervisor.

What is BOSS?

- High level of activities that baselines standards and prescribed measurable mission performance indicators of what Mission Managers need to complete the Mission Life Cycle
- A method to align with 7120.5
- Designed to increase accountability

What is BOSS?



Mission Planning Phase LSP-UG-330.01 Basic

Mission Planning Phase (~L-4 to L-3 years)

2.1 Intent

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- To ref

Significance o

- Establ

Mission Planning

NASA HQ & Mission Directorate	Spacecraft	Launch Vehicle Contractor	LSP Mgt	MM	Engineering	LSIM	PIM	Launch Director	Chief Engineer	Safety & Mission Assurance

Mission Planning Phase

Roles and Responsibilities

The specific roles and responsibilities for these actions are provided below.

Step	NASA Programs
Answer Early SC Questions	
Does SC Need Support?	
Initiate Support	
Perform Vehicle Trade Studies & Early Analysis	
SC SRR	
Participate in SC Reviews (SC PDR)	P
Define LV Acquisition Strategy	
Pre-ATP Special Studies	
Preliminary Payload Safety Working Group	
SC Mission Confirmation Review	
Orbital Debris Analysis (ODA) (LV & SC)	
Draft SC MSPSP review	
Draft SSPP review	
Participate in PSWGs	

Note: A = Accountable,

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2.4 Mission Performance Variables

During this phase the following outcomes are to be achieved.

Project Success Factors
Overall Risk
Launch Service Cost
LSP Schedule
LSP Technical: Major Documents
LSP Technical Analyses
LSP Technical: Needed Products, Facilities, and Se

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2.5 Major Deliverables

The following deli

Spacecraft

- Prepare Range M
  Briefing to Rang
  (aka Program Int
- SC Questionnair
- Submit Systems
  Program Plan (S
- Submit Draft MS

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2.6 Primary Procedures & Guides

The following procedures or guides are useful to execute this phase.

	Step	Policy Driver	Process	Policy Memo	LSP Checklist	LSP Template	Source of Information
2.6.1	Answer Early SC Questions		LSP-P-333.04; LSP-P-331.01; LSP-P-332.03; Generic Mission Plan	LSP-UG-313.01 Mission Budget User's Guide KDP-P-1497 KSC budget Formulation Process, Prepare Program Operating Plan, PPBE Users Guide		LSP-P-331.01	LSP-UG-332.01 LSP-UG-332.02 LSSP Boilerplate LSP-P-333.01
2.6.2	Does SC Need Support?						
2.6.3	Initiate or authorize support to include contract services						
2.6.4	Begin Development of Long Lead New Facility Items		KDP-KSCP-1319				LSP-UG-411.01
2.6.5	Perform Vehicle Trade Studies & Early Analysis (Internal)		LSP-P-333.08 (draft)				
2.6.6	Prepare draft IRD		LSP-P-333.08 (draft)				
2.6.7	Safety Concept Briefing or Range Safety Briefing	NPD-8700.1	NASA-STD-8719.8 EWR 127-1 AFSPCMAN 91-710				
2.6.8	SC Draft MSPSP & System Safety Program Plan	NPD-8700.1	EWR 127-1 AFSPCMAN 91-710				NASA-STD-8719.8 KNPR 8715.3, KSC Safety Practices Procedure Requirements
2.6.9	LV Orbital Debris Assessment (ODA) (LV & SC)	NPR 8715.6 LSP-PD-120.02	NASA-STD-8719.14				
2.6.10	SC PDR						
2.6.11	Draft Mission plan, Integrated schedule, & LV Acquisition strategy		KDP-P-2403				
2.6.12	FPB Approve LV Acquisition Strategy						
2.6.13	Pre-ATP Special Studies (External)						
2.6.14	SC Mission Confirmation Review or NAR						
2.6.15	Phase Close-Out				See Appendicies		

Why is BOSS Required?

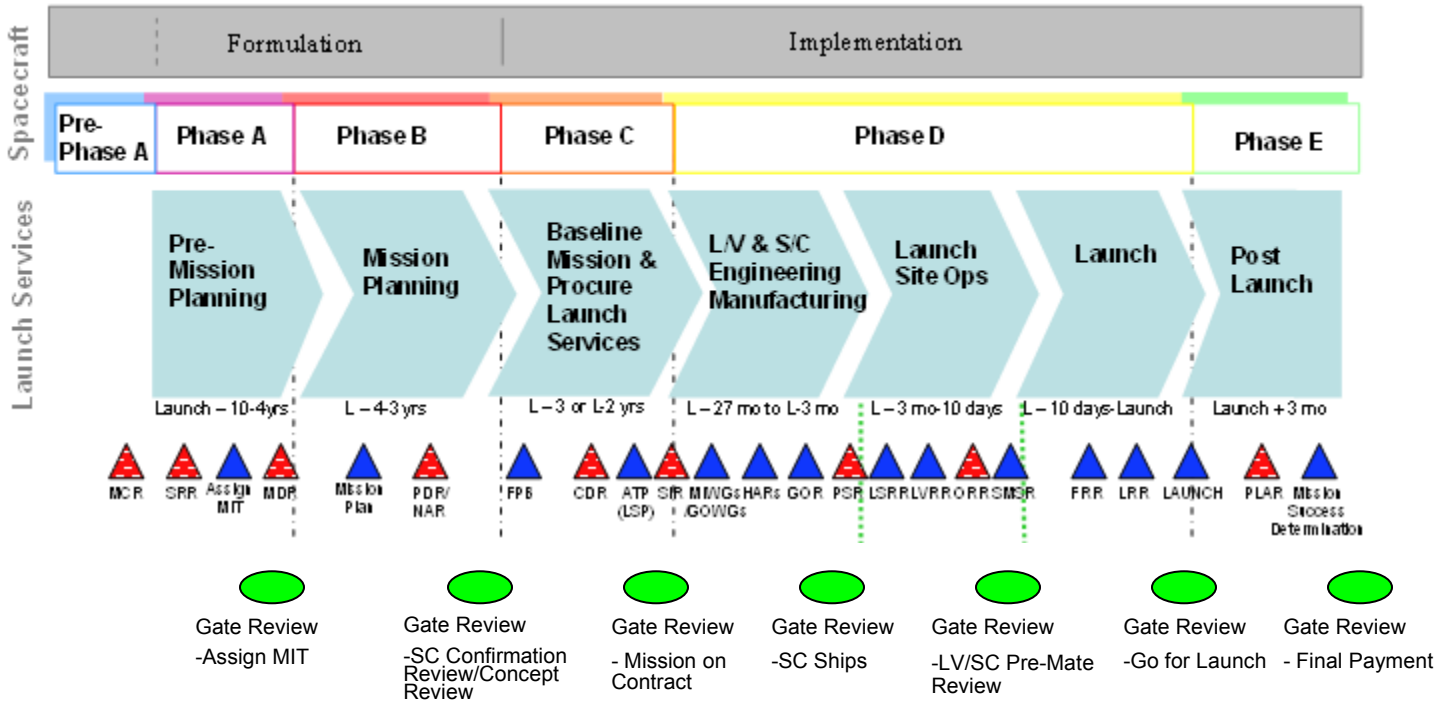
- To provide better, more consistent Mission Delivery to our Customers
- To document Mission Variables
- To align existing documents within the program for enhanced mission management

Who Shall Comply?

- All of LSP Mission Integration Team members
- Anyone directly involved in supporting mission work

When is Compliance Required?

- Throughout the Mission Life Cycle



- On a monthly basis at the PTI, a status of mission phase will be identified. (Fig.1)

BOSS chart for PTI

To be presented at PTI as the first page to each Mission on MIRS

BOSS Mission Status: (Mission Name here)

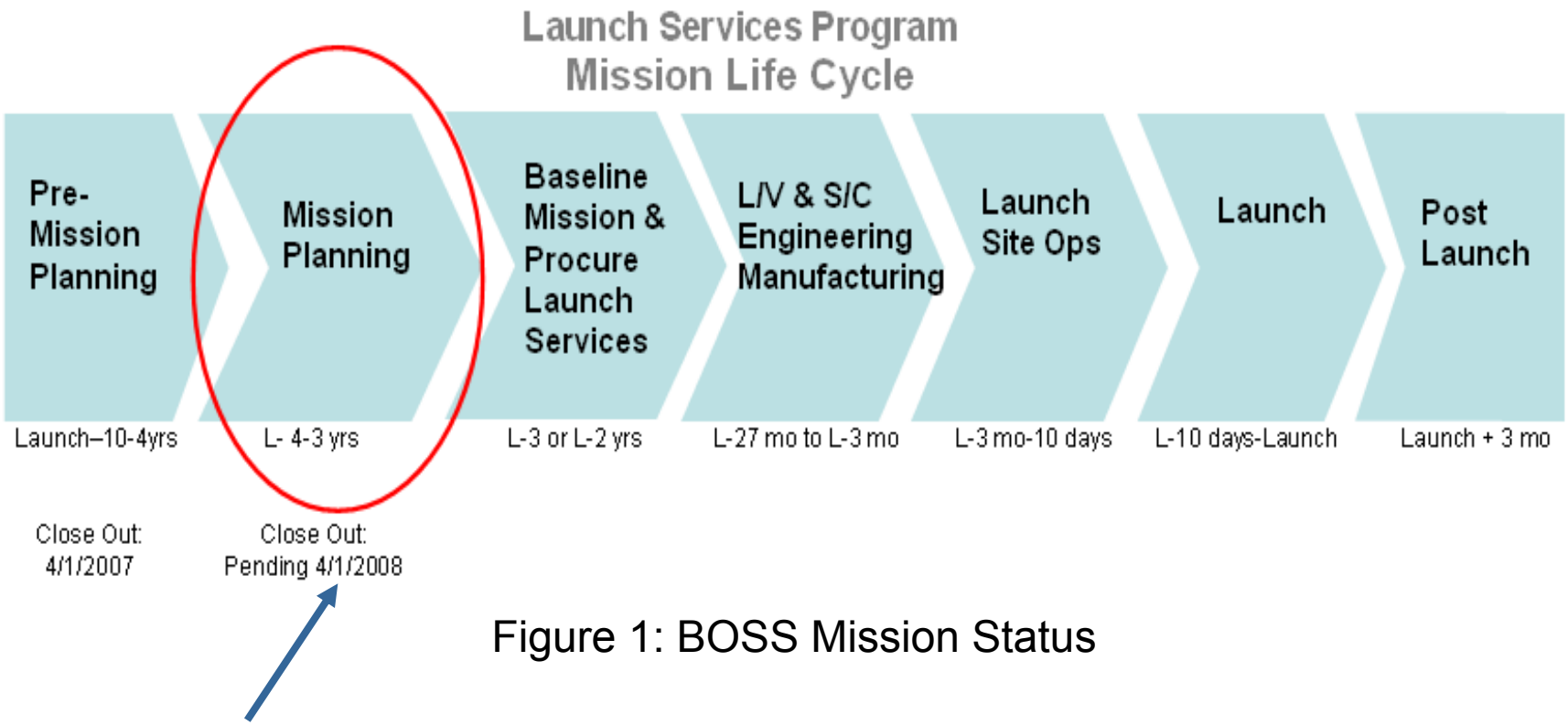
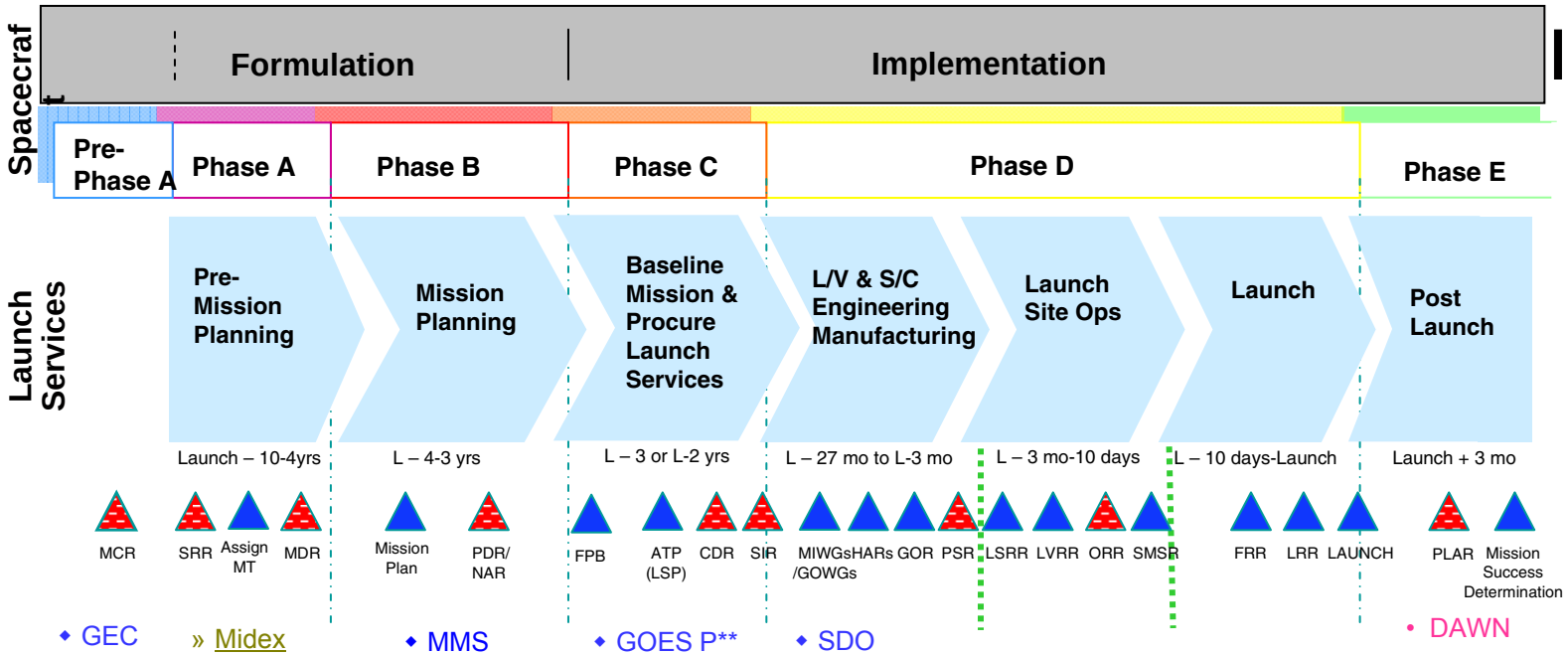


Figure 1: BOSS Mission Status

Consolidated look on all Missions



- GEC
- JWST**
- GOES R
- LISA
- ConX
- TDRS
- SIM
- » ST-9
- » ESSP
- » GPMC**
- » Discovery
- » LPRP
- » Mars Scout
- » Midex
- » SMEX
- » New Millennium
- » New Frontiers
- ○ AMS
- • RBSP
- MMS
- LDCM
- • JUNO
- GOES P**
- • AQUARIUS*
- • ST-8
- SDO
- NOAA-N'
- NPP
- GLAST
- GLORY
- IBEX
- LRO
- GOES O**
- o STSS
- o STSS ATRR
- • MSL
- • OCO
- • OSTM*
- • KEPLER
- • WISE
- LCROSS
- • DAWN

- GSFC
- • JPL
- o DOD
- » Other
- ARC
- ○ JSC

*** International**
**** Potential Advisory**
Underline is Competed
Update as of 11-28-07

How are Assessments Completed?

- Mission Managers work with Mission Integration Coordinators

Download the latest revision from TechDoc

– Mission Integration Schedule (LSP-F-330.02)

– BOSS Checklist (LSP-F-330.01)

How are Assessments Completed?

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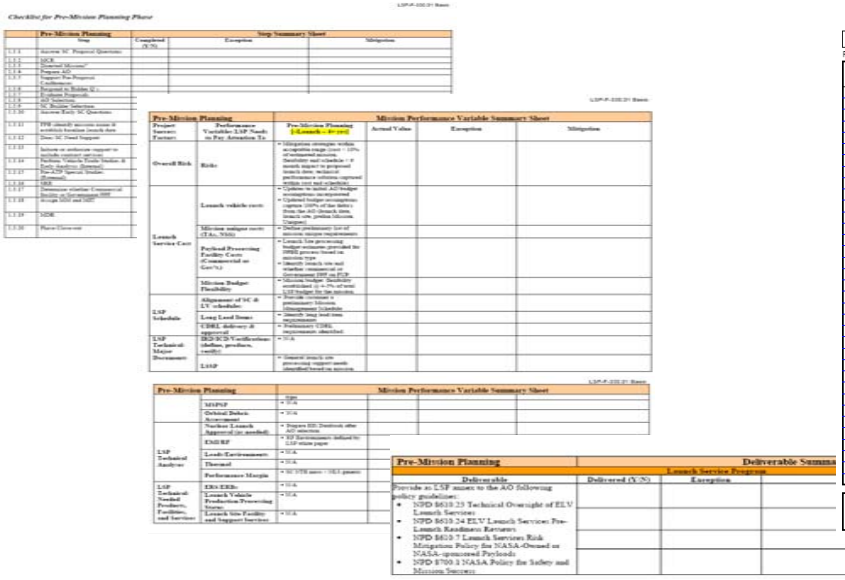

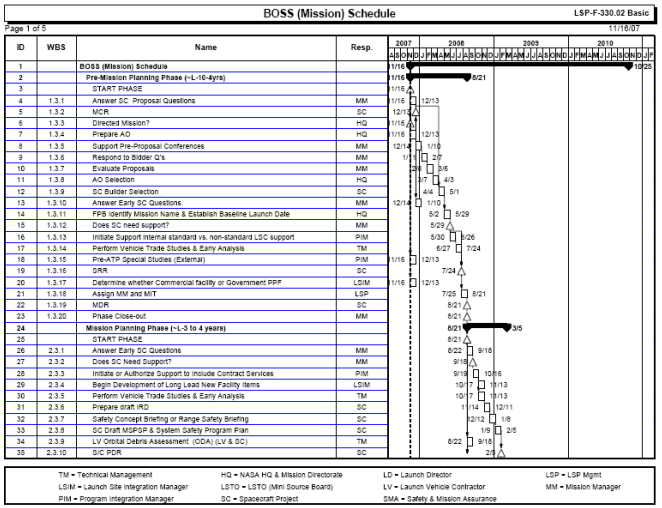

Who is the Governing Authority?

- Gate Review Board (GRB)
- Who makes up the GRB?
  - –Flight Project Office (FPO) – Chaired
  - –Program Business Office Chief
  - –Flight Analysis Division Chief
  - –Fleet and Systems Management Division Chief
  - –Infrastructure Management Division Chief

Upon successful completion of a phase, entrance into the next phase will be implemented by the LSP GRB gatekeeper (ref: Close-Out Summary)

Who will update and maintain? And How?

- Owner of the BOSS document will reside with the FPO chief

- Comments can be captured real time through the TechDoc.
  - Go to the Internal Website; In the Reference Section (toward the bottom of the page) find the NASA/KSC TechDoc Systems link. Find TDELV and log on - the ELV Document Library
  - Several people within LSP have been selected as representatives to be BOSS team members that will have accounts and can enter your comments.

- The BOSS shall be reviewed on a semi-annual basis.

Initiative Title: **Effectively implement/use the BOSS by the end of the FY 2008 and incorporate into business practices**

LSP Goal & Objective Alignment (1,2,3 or 4) 4

Goal: Maximize successful delivery of spacecraft to space	**Goal: Assure launch services for all customers—now and in the future**	**Goal: Promote evolution of competitive space market**	**Goal: Continually enhance LSP's core capabilities**
❑ **Objective 1.1**	❑ **Objective 2.1**	❑ **Objective 3.1**	❑ **Objective 4.1**
❑ **Objective 1.2**	❑ **Objective 2.2**	❑ **Objective 3.2**	❑ **Objective 4.2**
❑ **Objective 1.3**	❑ **Objective 2.3**	❑ **Objective 3.3**	❑ **Objective 4.3**
❑ **Objective 1.4**	❑ **Objective 2.4**	❑ **Objective 3.4**	❑ **Objective 4.4**

Description

Incorporate BOSS into the LSP business practices by making it integral to how LSP manages missions

Why is this an important initiative? What are the factors driving this initiative?

Improve consistency in mission delivery; instill ownership of initiative throughout the program; provides data for metrics

What are the planned deliverables?

Policy for BOSS; metrics; for each mission – completed tool set

What does it "good look like" when you are finished**?**

People make decisions using BOSS data

Who is accountable for making sure this initiative achieved?	Who is on the team?	Who needs to be involved in decisions regarding this initiative?
MItskevich/ Daisy Mueller	• **Reps from each division (new ones?)**	• **LSP managers (including NE, SMA)**

Nov-Dec-Jan Plans	Feb-Mar-April Plans	May-June-July Plans	Aug-Sept-Oct Plans
• **BOSS rollout (Lugo/Francois)** • **Transition to all missions** • **Review and update LSP processes as necessary to incorporate BOSS** • **Communicate to customer**	• **Evaluate effectiveness (Lessons learned) – tweak**		• **Evaluate effectiveness (Lessons Learned) and tweak**

Additional Dollars Needed:	Additional Talent/People Needed**:**
Money – PTI additions with AI solutions	

Next Steps:

- Upon release of BOSS document, current BOSS members will assist in answering and guiding direct organization to answer questions and/or submit comments for new revision.
- Go around the organization to discuss the new document requirement and obtain feedback.
- Share and collaborate with our customers and obtain feedback.
- Finally, measure the effectiveness of the BOSS